

REMARKS

The Office action of September 25, 2003, has been carefully considered.

Claim 1 has now been amended to recite that the electromagnetic sound producing device includes a case having an upper case and a lower case, a circular recess formed in the upper surface of the lower case, terminals embedded in the lower case, a yoke, a coil, a permanent magnet and a diaphragm in the case. The yoke has a circular case with a recess 16b and is mounted on the bottom of the circular recess with a projection 6b of the lower case. The permanent magnet is made of an SmFeN-base isotropy plastic magnetic material, with the coil and the permanent magnet mounted on the yoke and the diaphragm stacked on the permanent magnet. This amendment to Claim 1 is clearly supported by the structure shown in the drawings.

Since the yoke is provided in the recess of the lower case, the permanent magnet is mounted on the yoke, and the diaphragm is stacked on the permanent magnet, it is possible to reduce the thickness of the device. Moreover, the composition of the magnet and the terminals embedded in the lower case further enable reduction in the thickness.

In accordance with this amendment to Claim 1, Claim 4 has been canceled and Claim 3 has been amended to delete the recitation that the yoke is mounted on a base of the case.

Claims 1 through 4 have been rejected under 35 USC 103 over Sone in view of Aizawa et al.

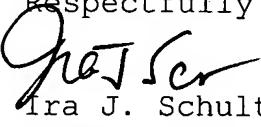
Sone has been cited to show an electromagnetic sound producing device comprising a case, a yoke, a coil, a permanent magnet made of plastic magnetic material and a diaphragm. Aizawa et al has been cited to show the SmFeN magnetic material.

However, in the device according to Sone, case 32 is secured to base 8 (column 4, lines 63-66), and there is no recess in base 8. Ring 20 is mounted on base 8 positioned by projections 14, 16 and 18 (column 4, lines 51-52), and diaphragm 24 is seated on ring 20 (column 4, lines 55-56). Terminals 2A, 2B, 2C and 2D are upwardly projected from base 8 as shown in Figures 8 and 9. These constructions cause the thickness of the device to increase substantially. A conspicuous example of this increased thickness is the mounting of the diaphragm on top of ring 20 which is mounted on the base.

As the invention is now clearly distinguished from the cited art, withdrawal of this rejection is requested.

In view of the foregoing amendments and remarks, Applicant submits that the present application is now in condition for allowance. An early allowance of the application with amended claims is earnestly solicited.

Respectfully submitted,


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